

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
7 April 2005 (07.04.2005)

PCT

(10) International Publication Number  
**WO 2005/032197 A1**

(51) International Patent Classification<sup>7</sup>: **H04Q 7/38,**  
G01S 1/00

[FI/FI]; Porvoonkatu 45 A 12, FI-00520 Helsinki (FI).  
**TALVITIE, Marianne** [FI/FI]; Naavakalliontie 4 F 46,  
FI-02120 Espoo (FI).

(21) International Application Number:  
PCT/FI2004/000516

(74) Agent: **PAGE WHITE & FARRER**; Runeberginkatu 5,  
10th Floor, FI-00100 Helsinki (FI).

(22) International Filing Date:  
3 September 2004 (03.09.2004)

(81) Designated States (*unless otherwise indicated, for every  
kind of national protection available*): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
20031417 30 September 2003 (30.09.2003) FI

(84) Designated States (*unless otherwise indicated, for every  
kind of regional protection available*): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

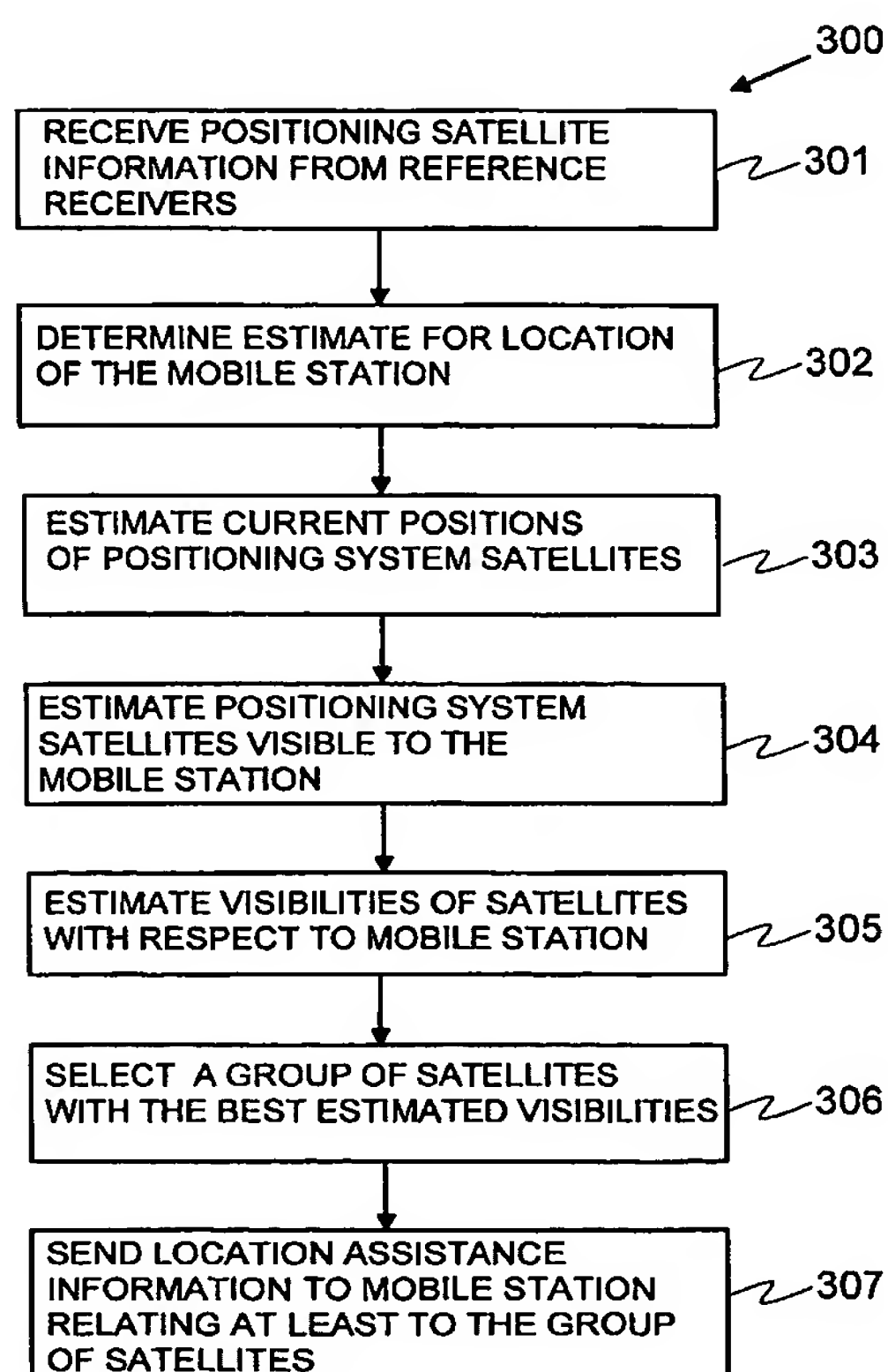
(71) Applicant (*for all designated States except US*): **NOKIA  
CORPORATION** [FI/FI]; Keilalahdentie 4, FI-02150 Es-  
poo (FI).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **MOILANEN, Jani**

[Continued on next page]

(54) Title: METHOD AND SYSTEM FOR PROVIDING LOCATION ASSISTANCE INFORMATION TO A MOBILE STATION



(57) Abstract: A method for providing location assistance infor-  
mation to a mobile station of a communications network is dis-  
cussed. Visibilities of a plurality of satellites of a satellite posi-  
tioning system with respect to the mobile station are estimated. A  
group of said plurality of satellites with the best estimated visi-  
bilities with respect to the mobile station is selected, and location  
assistance information relating to at least said group of satellites is  
sent to the mobile station.

WO 2005/032197 A1



European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

— *with international search report*